

# EUROPEAN PATENT OFFICE

## Patent Abstracts of Japan

PUBLICATION NUMBER : 2002151713  
PUBLICATION DATE : 24-05-02

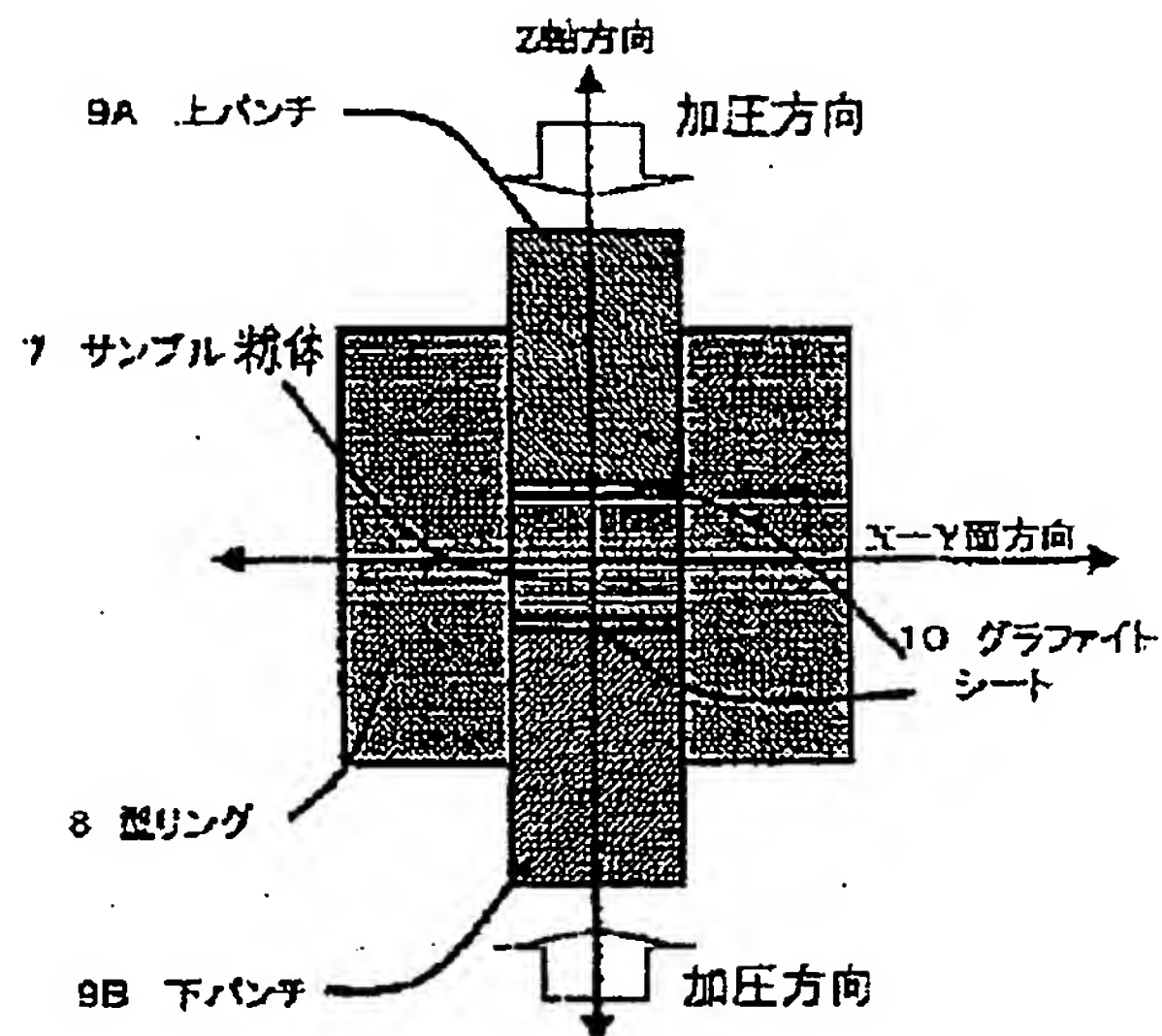
APPLICATION DATE : 23-02-01  
APPLICATION NUMBER : 2001047609

APPLICANT : KYOCERA CORP;

INVENTOR : KITAHARA NOBUYUKI;

INT.CL. : H01L 31/04

TITLE : SOLAR CELL ELEMENT SUBSTRATE  
AND MANUFACTURING METHOD  
THEREOF



**ABSTRACT :** PROBLEM TO BE SOLVED: To provide a method for manufacturing a solar cell element substrate which satisfies requirements for improved characteristics in performance, for lower cost and effective use of a resource, related to manufacturing of a polycrystal silicon substrate.

**SOLUTION:** With a jig comprising a through hole provided, a sample powder 7 is packed inside the through hole using a sintering device in which an upper punch 9A and a lower punch 9B are inserted from both ends of the through hole. Then the powder is pressurized by the punch while a pulse current is applied in its pressurizing axis direction so that the discharge plasma is generated inside the through hole. Thus, the sample powder 7 is sintered as a polycrystal body to provide the solar cell element substrate.

COPYRIGHT: (C)2002,JPO